Psychology 439
Advanced Statistical Methods for Psychology
Spring 2014

Instructor: David Lane
Meeting time: Tuesdays and Thursdays, 10:50-12:05

This course is intended as a second course in statistics. It is designed for psychology and cognitive science students but is relevant for students in another disciplines as well. The course expands on topics covered in PSYC 339 and covers advanced topics including statistical graphs, complex ANOVA designs, and multiple regression.

Thanks to a grant from the Committee on Undergraduate Teaching, iPad minis will be lent to each student for the semester. The textbook for the course is a free interactive e-book that works with iPads.

If you have a documented disability that will affect your work in this class, please contact me to discuss your needs. Additionally, please register with the Disability Support Services Office in the Ley Student Center.

Textbook

Online Statistics Education: A Multimedia Course of Study

- e-book
- website
- PDF

Some other readings will be assigned

Assignments, Exams, Projects, and Grading

Homework assignments
5% of the grade.

Discussion (in class and online)
5% of the grade.

Writing/presenting results
Two 1-2 page written results sections will be assigned. You may substitute an in-class presentation for one of them
15% of the grade.

Project
You may collect your own data or use existing data. You may work individually or in groups of up to three students. The project will involve analyzing real data by applying statistical/analytical techniques covered in class.
25% of the grade.

Exams
There will be a midterm and a final exam. Both will be take home. The midterm will count 20% and the final 30%. However, if you do better on the final than the midterm then the midterm does not count (the final counts 50%).

You must pass the final to pass the course!